

TWO NEW SPECIES OF WOODIPHORA SCHMITZ (DIPTERA, PHORIDAE) FROM CHINA

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Abstract Two new species of *Woodiphora* (Diptera, Phoridae), *W. lageniformis* Liu et Zhu, sp. nov. and *W. fasciaria* Liu et Zhu, sp. nov., are described and illustrated. The type specimens are deposited in the College of Biological and Environmental Engineering, Shenyang University.

Key words Diptera, Phoridae, *Woodiphora*, new species, China.

The genus *Woodiphora* was established by Schmitz with the type species *Aphiochaeta retroversa* (Wood). Up to present, 56 known species were recorded in the world, of them 10 are known in China (Liu, 2001). In the present paper, two species are described as new to science. The type specimens are deposited in the College of Biological and Environmental Engineering, Shenyang University.

Woodiphora lageniformis Liu et Zhu, sp. nov.
(Figs. 1-3, 7-8)

Female. Head with dark frons, bearing about 32 hairs. Supra-antennal bristles subequal. Upper supra-antennal bristles only a little higher than antial bristles, while lower than antero-lateral bristles. Pre-ocellar bristles lower than medio-lateral bristles and a little closer together than antials bristles. Third antennal segment dark brown. Palpus dark brown with several irregular pits on outer face and about 12 bristles, the apical bristle being clearly longer. Thorax brownish, to very dark on top. Scutellum with 4 bristles. Wings 1.64 mm long. Costal index 0.49. Costal ratios 3.3: 2.4: 1.0. Costal cilia 0.046 mm long. Thick veins brown, but thin veins very pale. Membrane brown. Axillary ridge with 2 bristles. Haltere dark brown. Legs brown. Tibia without palisades. Hind femur with about 7 hairs below basal half. Abdomen with brownish tergites and greyish brown venter. Tergite 6 with semicircular pit on anterior margin, internal sclerite calabash-shaped. Tergite 7 distinctly narrow behind, ladder-shaped. Stergite 7 spear-shaped.

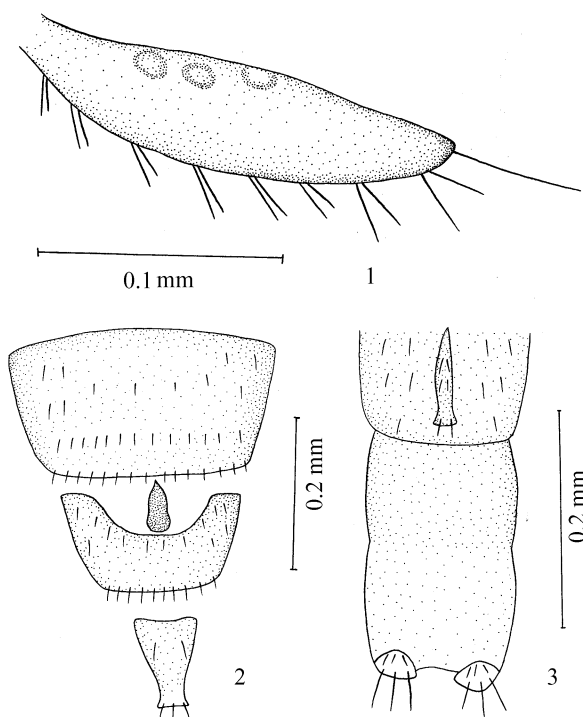
Male. Unknown.

Holotype ♀, Mt. Gongga (1500 m), Sichuan, China, 2 Aug. 2004, LIU Guang-Chun and FAN Ye-Zhan.

Remarks. This species is similar to *W. smtoshi* Disney, but differs from the latter in: 1) tergite 7 ladder-

shaped, distinctly narrow behind; 2) tergite 6 with semicircular pit on anterior margin, internal sclerite calabash-shaped.

Etymology. The specific name refers to the characteristic internal sclerite of tergite 6.



Figs 1-3. *Woodiphora lageniformis* Liu et Zhu, sp. nov.
1. Palps in lateral view. 2. Tergite in dorsal view. 3. Stergite in ventral view.

Woodiphora fasciaria Liu et Zhu, sp. nov. (Figs 4-6, 9-10)

Female. Head with dark brown frons, bearing about 44 hairs. Supra-antennal bristles subequal. Upper supra-antennal bristles level with antial bristles, but lower

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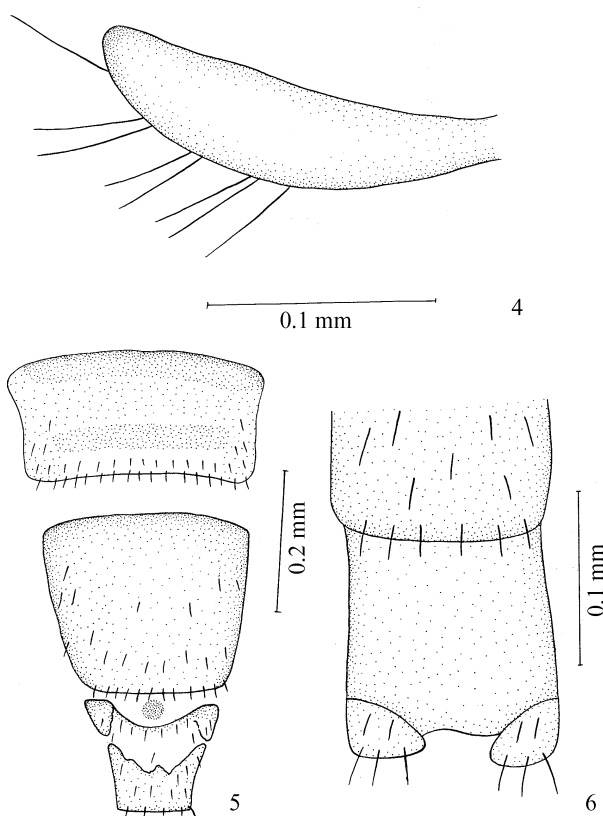
than antero-lateral bristles. Pre-ocular bristles lower than medio-lateral bristles and a little closer together than antials. Third antennal segment dark brown. Palpus dark brown with about 8 bristles, the apical bristle being clearly longer. Thorax brownish, to very dark on top. Scutellum with 4 bristles. Wings 1.54 mm long. Costal index 0.49. Costal ratios 3.3: 2.0: 1.0. Costal cilia 0.029 mm long. Thick veins brown, but thin veins very pale. Membrane lightly greyish brown. Axillary ridge with 2 bristles. Haltere grayish brown. Legs brownish. Tibia without palisades. Hind femur with about 6 hairs below basal half, at least half of which are longer than those of antero-ventral row in distal half. Abdomen with brownish tergites and greyish brown venter. Tergite 4 with an unpigmented transverse bar in middle, tergite 4 narrow in lateral margin. The length equal to the width of tergite 5. Tergite 6 with semicircular pit on anterior margin, internal sclerite circular. Tergite 7 narrowed behind in lateral, ladder shaped.

Male. Unknown.

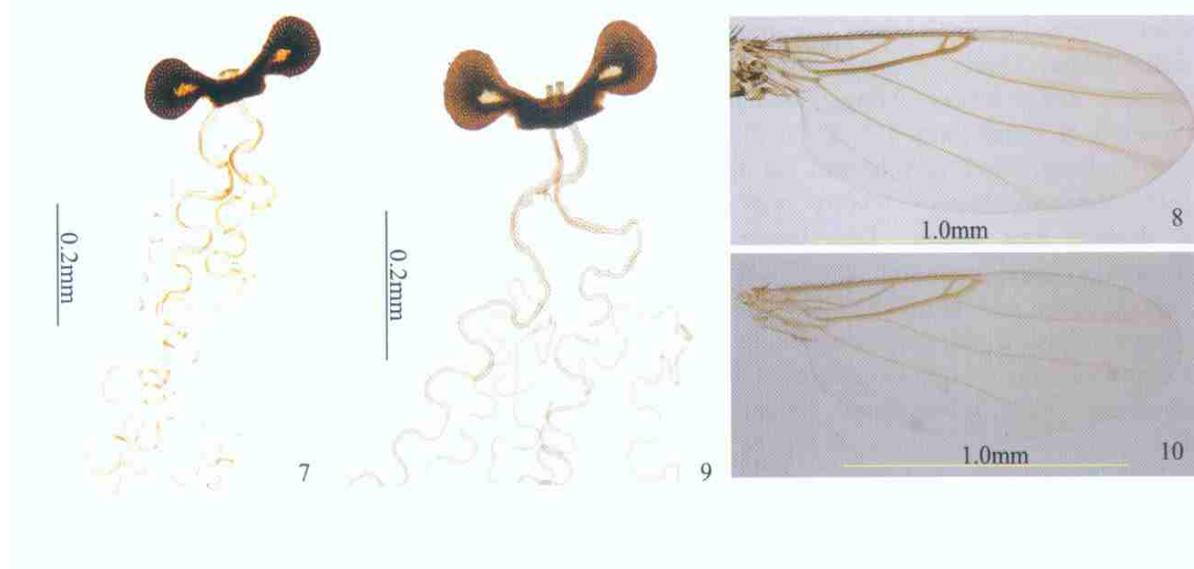
Holotype ♀, Mt. Jianfeng (alt. 850 m), Hainan, China, 2 Apr. 1992, LIU Guang Chun.

Remarks. This species is similar to *W. malae* Disney, but differs from the latter in: 1) tergite 4 narrow in lateral margin; 2) the length equal to the width of tergite 5.

Etymology. The specific name refers to the characteristic unpigmented transverse bar in the middle of tergite 4.



Figs. 4-6. *Woodiphora fasciaria* Liu et Zhu, sp. nov. 4. Palps in lateral view. 5. Tergite in dorsal view. 6. Stergite in ventral view.



Figs 7-8. *Woodiphora lageniformis* Liu et Zhu, sp. nov. 7. Dufour's crop mechanism. 8. Wing. Figs 9-10. *Woodiphora fasciaria* Liu et Zhu, sp. nov. 9. Dufour's crop mechanism. 10. Wing.

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中国乌蚤蝇属二新种 (双翅目, 蚤蝇科)

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摘 要 记述了中国乌蚤蝇属 2 新种, 葫芦乌蚤蝇 *Woodiphora lageniformis* Liu et Zhu, sp. nov. 和明带乌蚤蝇 *Woodiphora fasciaria* Liu et Zhu, sp. nov. 葫芦乌蚤蝇第 6 背板内部小骨片呈葫芦形, 第 7 背板向后明显变狭区别于其它种。明带乌蚤

蝇以第 4 背板中部具 1 无色横条, 第 5 背板长等于宽, 几乎呈正方形区别于其它种。模式标本存于沈阳大学生物与工程学院。

关键词 双翅目, 蚤蝇科, 乌蚤蝇属, 新种, 中国.

中图分类号 Q969. 451. 8

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